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connection initiator to terminate a portion of the unused available communication connections when the number of unused available communication connections in the communication connection pool exceeds a third number.

14. In a network communicatively linking a plurality of host computers, a plurality of server computers, and a plurality of client computers, a communication connection management system comprising:

at least one communication connection pool configured to maintain in addition to communication connections through the network between the host computers and the server computers being used by client computers to access the host computers through the server computers, communication connections between the host computers and the server computers unused but available for use by the client computers to access the host computers through the server computers;

at least one communication connection initiator configured to create the communication connections between the server computers and the host computers; and

at least one communication connection pool manager configured to direct the one or more communication connection initiators to create a first number of communication connections to be added to any unused available communication connections in each of the one or more communication connection pools when the number of unused available communication connections in each of the one or more communication connection pools is below a second number.

15. The communication connection management system of claim 14 wherein the one or more communication connector pool managers are configured to determine at least one of the first number and the second number based upon historical traffic data of requests from the client computers for access to the host computers.

16. The communication connection management system of claim 14 wherein the first number is an increment.







determining if the number of available communication connections in the pool available for future requests is at least at a desired amount of available communication connections greater than zero; and

increasing the number of available communication connections in the pool available for future requests if the number of available communication connections in the pool available for future requests is at or below the desired amount.

33. The method of claim 32 wherein the desired amount is a first number and if performed, the step of increasing the number of available communication connections increases by a second number.

34. The method of claim 33, further including using operations research and queuing theory applied to historical traffic data of requests from the client computers for access to the host computers to determine at least one of the first number and the second number.

35. The method of claim 33 wherein the number of available communication connections are increased using an increment for the second number.

36. In a network communicatively connecting a host computer, a server computer, and a plurality of client computers, a method for managing communication connections comprising:

maintaining a pool of available screen objects associated with communication connections between the host computer and the server computers to be available for use by the client computers that request communication connections to access the host computer through the server computer;

determining the number of available communication connections in the pool available for future requests;

determining if the number of available screen objects in the pool available for future requests is at least at a desired amount of available screen objects greater than zero; and

increasing the number of available screen objects in the pool available for future requests if the number of available screen objects in the pool available for future requests is at or below the desired amount.

37. The method of claim 36 wherein the desired amount is a first number and the number of available screen objects are increased by a second number as the amount of the increase.

38. The method of claim 37, further comprising determining at least one of the first number and the second number based at least in part upon levels of past requests from the client computers for access to the host computer through the server computer.

39. The method of claim 37 wherein the second number is an increment.

40. The method of claim 39 wherein the first number is the product of the increment multiplied by a load factor.

41. The method of claim 40 wherein the increment is an integer and the load factor is greater than zero and less than or equal to one.